

Weekly Report

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This week I began taking courses, on Tuesday, Wednesday and Friday. Operating System is difficult since I did not have any elementary knowledge about it. The course selection is still on the way, I only have 3 courses till now and the result will be shown on 25th.

I finished the first part of the book *network, crowds and markets*, on the topic of Graph Theory and social network. I had a pre on this part on Thursday. I mainly introduced the useful concepts and the way how to interpret a problem into a graph theory problem. I also told about my opinion on the relations of the chapters. Also, several questions which are related to the projects in vag were raised and we discussed about it.

My topic in NetEase project will be the connections between customers' behavior and network structure. At the beginning, I should work on the following two parts: reading papers related to the network and draw some pictures or graphs which depicts the features of it.

At present, I collected several papers on ego-network and visualizations. I will glance over the papers and make a survey on it as soon as possible.

In drawing the pictures, I am working on processing the data now. A brief idea of drawing them is extract their features at different time point and using MDS or parallel coordinates to depict them. Though the data volumn is not that huge, it still needs some time to extract data from different tables. I adopt the method of using MySQL to process the data. During the import of data, I found several problems(data missing) in the data:

- There is no 战斗力values before Aug15,2015 in nay of the server.
- player_daily_attr lost data between 2013 May17 and 2013 May23.

They are stored in the form as follows[buy_shizhuang],[player_daily_attr]:

Column Name	Datatype	Column Name	Datatype
date_time	DATETIME	playerid	VARCHAR(20)
serverid	INT(11)	serverid	INT(11)
CostumeID	VARCHAR(10)	date_time	DATETIME
BuyerID	VARCHAR(20)	game_level	SMALLINT(6)
Cost	DOUBLE	zhandouli	INT(11)
Quantity	INT(11)	xiuwei	SMALLINT(6)
UserID	VARCHAR(20)	xiulian	SMALLINT(6)
IsGift	INT(11)		

Since there about 400 daily_attribute file to import, I only made some statistics on the buy_shizhuang table. Totally there are 402596 records with 217929 buyer IDs. 52734 times players buy a cloth and give it to others. 83769 person buy more than 1 time.